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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,068	12/27/2001	Thomas P. Fowler	2001-040-NSC	9440
7590 06/20/2005			EXAMINER	
Timothy R. Schulte Storage Technology Corporation One StorageTek Drive, MS-4309			ROJAS, MIDYS	
			ART UNIT	PAPER NUMBER
Louisville, CO 80028-4309			2189	
			DATE MAILED: 06/20/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/034,088	1		Application No.	Applicant(s)						
Midys Rojas 2189			10/034,068	FOWLER, THOMAS	S P.					
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editedence of the map be evaluated useful the professions of 3 CRF 1.158(a), in no event, however, may a reply be timely filed I the period for reply specified above is less than thirty (50) days, a reply with the stationy minimum of thirty (30) days, all be considered limely. If NO period for reply specified above, the mantima statishor period vall large and vall explose 35 (NOMTHS from the stating date of this communication for reply appendix dows, the mantima statishor period vall large and vall explose 35 (NOMTHS from the stating date of this communication of the period of the of the		Office Action Summary	Examiner	Art Unit						
Period for Reply			Midys Rojas	2189						
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1) Responsive to communication(s) filed on 14. January 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 10) The drawing(s) filed on 27. December 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any									
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Art Unit: 2189

DETAILED ACTION

Response to Arguments

1. Applicant's arguments regarding previously amended claims 1-8 and 11-18 have been fully considered but they are not persuasive.

Applicant argues that, unlike the claimed invention, the invention of Feldman et al. starts and ends interaction with a memory server for the augmentation of allocated storage space automatically and that the examiner's interpretation of this reference as the interaction being a result of manual initiation by an user renders the terms "manual" and "automatic" meaningless. However, even though the system of Feldman discloses the automatic extension of memory capacity on demand, wherein the interaction with the memory server start and end automatically dependent on the memory requirements at the time, manual initiation of user data and programs and user adjustments of programmed application parameters affect the memory requirements of the system and thus manually initiate a request for an increase in allocated storage space. Feldman specifically discloses that the extension of memory is initiated by the demand of user applications; user applications are known to be initiated by users (see Abstract).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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3. Claims 1-8, 11-18, 21-28, and 31-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Feldman et al. (6,516,342).

Regarding Claims 1, 7-8, 11, 17-18, 21, 27-28, 31-33, 35-38, and 40, Feldman et al. teaches a system in which a Network Client 14 ("user") extends its memory through the use of an allocated memory area 22a ("allocated storage space") within a Network Server 16. The allocated memory area could be composed of one or more hard disk ("plurality of disk storage devices") as it is common for servers or other computer systems to be equipped with more than one hard drive. Since the memory area 22a is allocated to the Network Client as needed, the remainder of the memory that is not being used is free storage space. Given that the communication between the Network Client and the Network Server is through a network (please see Figure 2) it is understood that the Network Client is located at a site remote from the Network Server. Feldman et al. also discloses a memory server manager 20 ("controller"), which administers the use of the server's memory and therefore, must be involved with the allocation of the memory area to the Network Client (Column 4, lines 7-39). Additionally, the system of Feldman et al. allows for Network Clients to extend their memory capability automatically on demand ("automatically transferring a portion of such allocated storage space... in response to user request", Column 4, lines 58-62). Although Feldman et al. discloses suspension of the server's interaction with the client upon the reduction of memory requirements. it is understood that in cases where memory requirements are always high, the interaction between the memory server and the client can be a permanent arrangement.

Even though the system of Feldman discloses the automatic extension of memory capacity on demand, wherein the interaction with the memory server start and end automatically

dependent on the memory requirements at the time, manual initiation of user data and programs and user adjustments of programmed application parameters affect the memory requirements of the system and thus manually initiate a request for an increase in allocated storage space.

Regarding Claims 2-3, 12-13, and 22-23, Feldman et al. discloses that the memory server manager 20 ("controller") can be run as a user application (Column 4, line 19). It is understood that for the memory server manager to be "run" such application must be composed of some computer software ("computer program"). Furthermore, in order for the memory server manager to "run" it must also have access to a processor, which can process the software that it is composed of.

Regarding Claims 4, 14, and 24, Feldman et al. also discloses a memory server manager 20 ("controller"), which administers the use of the server's memory and therefore, must be involved with the allocation of the memory area to the Network Client (Column 4, lines 15-19). Since this component allocates the memory that the Network Client needs, the realization that such memory is needed acts as a request from the Network Client ("user") to the memory server manager ("controller").

Regarding Claims 5, 15, and 25, Feldman et al. discloses that the memory server manager 20 ("controller") can be run as a user application (Column 4, line 19). It is understood that for the memory server manager to be "run" such application must be composed of some computer software ("computer program"). Since the memory server manager ("computer program", "controller") is located at the Network Server along with the server memory 22a, composed of a number of hard drives ("plurality of storage devices"), both of these components are to be found at a remote server site.

Regarding Claims 6, 16, 26, 34, and 39, Feldman et al. teaches a virtual memory manager 18 ("storage device manager") within the Network Client which aids in the migration of data to the remote allocated memory 22a and which logs in a memory server translation table the virtual memory address of the client (Column 5, lines 11-30).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9-10, 19-20, and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feldman et al. (6,516,342).

Regarding Claims 9, 19, and 29, Feldman et al. teaches a system in which a Network Client 14 ("user") extends its memory through the use of an allocated memory area 22a ("allocated storage space") within a Network Server 16. Given that the communication between the Network Client and the Network Server is through a network (please see Figure 2) it is understood that the Network Client is located at a site remote from the Network Server. Feldman et al. also discloses a memory server manager 20 ("controller"), which administers the use of the server's memory and therefore, must be involved with the allocation of the memory area to the Network Client (Column 4, lines 7-39). Feldman et al. does not teach the use of the memory server manager to decrease the amount of memory space that is allocated to the user. It would have been obvious to one of ordinary skill in the art at the time the invention was made that the memory server manager has the ability to decrease the amount of memory being

allocated to the Network Client since it administers the use of the server's memory and having this ability enables the system to allocate memory more efficiently to other applications when the

Network Client does not need all the memory that is being allocated to it.

Regarding Claims 10, 20, and 30, Feldman et al. also discloses a memory server manager 20 ("controller"), which administers the use of the server's memory and therefore, must be involved with the allocation of the memory area to the Network Client (Column 4, lines 15-19). Since this component allocates the memory that the Network Client needs, the realization that such memory is needed acts as a request from the Network Client ("user") to the memory server manager ("controller").

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Midys Rojas whose telephone number is (571) 272-4207. The

examiner can normally be reached on M-F 5:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mano Padmanabhan can be reached on (571) 272-4210. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 16, 2005

Midys Rojas Midys Rojas

Examiner

Art Unit 2189

MR

Pierre Vital

Primary Examiner

Art Unit 2188